

## AMENDMENTS TO THE CLAIMS

- 1 1. (Currently Amended) A method for managing materialized views, the method comprising  
 2 the steps of:  
 3 a database management system receiving a request to generate a materialized view that  
 4 contains objects of an object class;  
 5 in response to receiving said request, said database management system creating said  
 6 materialized view; ~~and~~  
 7 said database management system performing operations on said objects as instances of  
 8 said object ~~class~~-class; and  
 9 wherein said object class defines one or more attributes and one or more routines to  
 10 invoke to operate on the state of the objects of said object class.
- 1 2. (Original) The method of claim 1, wherein the step of creating said  
 2 materialized view includes the step of creating an object materialized view,  
 3 wherein said object materialized view is associated with an object class and  
 4 contains instances of said object class that correspond to rows of said object  
 5 materialized view.
- 1 3. (Original) The method of claim 1, wherein the step of creating said materialized view  
 2 includes creating an object-relational view that includes at least one object column.
- 1 4. (Original) The method of claim 1, wherein the method further includes the step of  
 2 receiving another request from a user requesting performance of said operations on said  
 3 objects as instances of said object class.
- 1 5. (Currently Amended) The method of claim 1, wherein the step of said database  
 2 management system performing operations includes performing an operation on said  
 3 objects by invoking a routine ~~associated with~~ defined by said object class.

- 1 6. (Original) The method of claim 1, further including the step of said database management  
2 system generating refresh code that refreshes said materialized view.
- 1 7. (Original) The method of claim 1, further including the step of generating refresh code  
2 that may be executed to fully refresh said materialized view.
- 1 8. (Original) The method of claim 1, further including the step of generating refresh code  
2 that refreshes said materialized view based on modifications to one or more base tables of  
3 said materialized views.
- 1 9. (Currently Amended) The method of claim 8, wherein:  
2 said materialized view includes an object column ~~associated with~~ defined by said object  
3 class,  
4 the object class ~~is associated with~~ defines attributes;  
5 the step of creating said materialized view includes creating a container table that  
6 includes corresponding columns that correspond to said attributes and that hold  
7 values for said attributes; and  
8 the step of generating refresh code includes the step of generating refresh code that  
9 references said corresponding columns but not as said attributes of said object  
10 class.
- 1 10. (Original) The method of claim 1, wherein said materialized view includes an object  
2 column that has a plurality of nested tables that contain nested table objects.
- 1 11. (Original) The method of claim 10, wherein the step of creating said materialized view  
2 includes the steps of:  
3 creating a container table for said materialized view; and  
4 creating another table that holds attributes of nested table objects of said plurality of  
5 nested tables.

1 12. (Original) The method of claim 1, wherein:  
2 said materialized view is associated with one or more base tables;  
3 a base table of said one or more base tables includes a base column typed as an  
4 object reference; and  
5 wherein the step of creating said materialized view includes creating a particular  
6 column that:  
7 corresponds to said base column, and  
8 is typed as an object reference.

1 13. (Original) The method of claim 12, wherein:  
2 a first scope of said base column is a first set of tables; and  
3 the particular column has a second scope that is different than said first scope.

1 14. (Original) The method of claim 13, wherein the second scope is another  
2 materialized view based on said first set of tables.

1 15. (New) A computer-readable medium carrying one or more sequences of  
2 instructions which, when executed by one or more processors, causes the one or  
3 more processors to perform the method recited in Claim 1.

1 16. (New) A computer-readable medium carrying one or more sequences of  
2 instructions which, when executed by one or more processors, causes the one or  
3 more processors to perform the method recited in Claim 2.

1 17. (New) A computer-readable medium carrying one or more sequences of  
2 instructions which, when executed by one or more processors, causes the one or  
3 more processors to perform the method recited in Claim 3.

1 18. (New) A computer-readable medium carrying one or more sequences of  
2 instructions which, when executed by one or more processors, causes the one or  
3 more processors to perform the method recited in Claim 4.

- 1 19. (New) A computer-readable medium carrying one or more sequences of  
2 instructions which, when executed by one or more processors, causes the one or  
3 more processors to perform the method recited in Claim 5.
- 1 20. (New) A computer-readable medium carrying one or more sequences of  
2 instructions which, when executed by one or more processors, causes the one or  
3 more processors to perform the method recited in Claim 6.
- 1 21. (New) A computer-readable medium carrying one or more sequences of  
2 instructions which, when executed by one or more processors, causes the one or  
3 more processors to perform the method recited in Claim 7.
- 1 22. (New) A computer-readable medium carrying one or more sequences of  
2 instructions which, when executed by one or more processors, causes the one or  
3 more processors to perform the method recited in Claim 8.
- 1 23. (New) A computer-readable medium carrying one or more sequences of  
2 instructions which, when executed by one or more processors, causes the one or  
3 more processors to perform the method recited in Claim 9.
- 1 24. (New) A computer-readable medium carrying one or more sequences of  
2 instructions which, when executed by one or more processors, causes the one or  
3 more processors to perform the method recited in Claim 10.
- 1 25. (New) A computer-readable medium carrying one or more sequences of  
2 instructions which, when executed by one or more processors, causes the one or  
3 more processors to perform the method recited in Claim 11.
- 1 26. (New) A computer-readable medium carrying one or more sequences of  
2 instructions which, when executed by one or more processors, causes the one or  
3 more processors to perform the method recited in Claim 12.
- 1 27. (New) A computer-readable medium carrying one or more sequences of  
2 instructions which, when executed by one or more processors, causes the one or  
3 more processors to perform the method recited in Claim 13.

- 1 28. (New) A computer-readable medium carrying one or more sequences of
- 2 instructions which, when executed by one or more processors, causes the one or
- 3 more processors to perform the method recited in Claim 14.